



MGS

Medium Grade Services

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InstallRoot System Administrator Guide (SAG)

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OVERVIEW

InstallRoot is a small utility that people can use to install all of the DoD supported root certificates on their machine. A total of sixteen root certificates are installed on the machine after executing the program. InstallRoot can be run locally, from a floppy disk, across a network, or even as a logon script.

The root certificates are important because they enable a user's system to trust, or have confidence in, any certificates issued by any of the certificate servers under each root. If a user does not have the root certificates installed and they receive a secured message from another user, they will receive an error message saying that the user is not trusted. For more information on e-mail and root certificates, refer to the Medium Grade Services (MGS) website at <http://falcon3.ncr.disa.mil/html/introduction.html>.

1. SYSTEM REQUIREMENTS

1.1 CLIENT REQUIREMENTS

- Windows 95, 98, NT (Administrator or User privileges), or 2000 (Administrator privileges only)
- Internet Explorer with 128-bit Encryption

2. RUNNING INSTALLROOT

2.1 RUNNING FROM A FLOPPY

- Insert the floppy into the floppy drive of your computer.
- Click on the Start button and click Run.
- Type "A:\InstallRoot.exe" where "A" is the letter of your floppy drive.
- Follow the on-screen prompts to complete the installation.

2.2 RUNNING OVER A NETWORK

- Using Network Neighborhood, locate the computer where the InstallRoot.exe file resides.
- Double-click on the InstallRoot.exe file and follow the on-screen prompts to complete the installation.

2.3 SILENT COMMAND LINE SWITCH

A command line switch has been implemented in InstallRoot to force the program to run without displaying any messages unless a fatal error occurs. This switch is best used when automating InstallRoot to run on multiple computers at once or in a workstation's logon script (can be run multiple times without impacting installation), etc. To use the switch, type "A:\InstallRoot -s", where "A:\\" is the location of the InstallRoot.exe executable image.

3. INSTALLED ROOTS

3.1 WINDOWS NT USER PRIVILEGES

When a user with Administrative privileges runs InstallRoot, the program will install the root certificates into the Local Machine branch of the system registry. This makes the root certificates visible to and usable by all accounts on that computer. However, if the user running InstallRoot does not have Administrative privileges, the root certificates will be installed under the Current User branch of the system registry, making them available to that user only.

3.2 TRUSTED ROOTS

- DoD CLASS 3 Root CA
- DoD PKI Med Root CA
- DST IECA-2
- General Dynamics IECA Root CA
- Onsite2-188 (VeriSign IECA)
- ORC IECA.

3.3 INTERMEDIATE ROOTS

- DOD CLASS 3 CA-3
- DOD CLASS 3 CA-4
- DOD CLASS 3 CAC CA
- DOD CLASS 3 CAC EMAIL CA
- DOD CLASS 3 EMAIL CA-3
- DOD CLASS 3 EMAIL CA-4

- Med CA-1
- Med CA-2
- Med Email CA-1
- Med Email CA-2.

4. KNOWN ISSUES

4.1 RUNNING INSTALLROOT AS A LOGON SCRIPT UNDER WINDOWS 9X

- a. Error: “Bad command or file name.”

Explanation: This issue arises if you do not specify the full Universal Naming Convention (UNC) path for the filename when the silent switch (-s) is specified (an example of a UNC pathname is \\SRA\NETLOGON for the NETLOGON folder on the SRA computer). Unfortunately, the server does not allow UNC pathnames in the logon script setup. We recommend creating a batch file that executes InstallRoot with the UNC pathname, and subsequently setting that batch file to run in the logon script.

- b. Program crash:

Explanation: This issue arises if you run without the silent switch in a logon script under Windows 9X. We recommend using the silent switch in all logon scripts.

Note: Running any program as a logon script forces that program to be executed each time a user logs in to the computer. InstallRoot has been tested in this environment and is safe to run in a logon script.

4.2 RUNNING UNDER WINDOWS 2000 WITHOUT ADMINISTRATIVE RIGHTS

Because of Windows 2000 security features, users without Administrative rights are not allowed to add trusted roots to the registry. Therefore, if InstallRoot detects that a user is running under Windows 2000 without Administrative rights, it will exit with an error message.

5. TECHNICAL SUPPORT

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